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NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 12	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 13	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 14	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 15	AUG 27	USPATOLD now available on STN
NEWS 16	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 17	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 18	SEP 13	FORIS renamed to SOFIS
NEWS 19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 20	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 21	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24	OCT 19	BEILSTEIN updated with new compounds

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007

=> file medline, agricola, caba, caplus, biosis, biotechno
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'MEDLINE' ENTERED AT 16:06:28 ON 31 OCT 2007

FILE 'AGRICOLA' ENTERED AT 16:06:28 ON 31 OCT 2007

FILE 'CABA' ENTERED AT 16:06:28 ON 31 OCT 2007
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FILE 'CAPLUS' ENTERED AT 16:06:28 ON 31 OCT 2007
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FILE 'BIOTECHNO' ENTERED AT 16:06:28 ON 31 OCT 2007
COPYRIGHT (C) 2007 Elsevier Science B.V., Amsterdam. All rights reserved.

=> s (zhang s? or zhang, s?)/au
L1       44047 (ZHANG S? OR ZHANG, S?)/AU

=> s (carrier, r? or carrier r?)/au
L2         222 (CARRIER, R? OR CARRIER R?)/AU

=> s (lemaux, p? or lemaux p?)/au
L3         383 (LEMAUX, P? OR LEMAUX P?)/AU

=> s l1 and l2 and l3
L4           0 L1 AND L2 AND L3

=> s l1 or l2 or l3
L5       44575 L1 OR L2 OR L3

=> s l5 and (corn or maize or zea)
L6         634 L5 AND (CORN OR MAIZE OR ZEA)

=> s l6 and shoot(w)meristem
L7          18 L6 AND SHOOT(W) MERISTEM

=> duplicate remove l7
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L7
L8            7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)

=> d l8 1-7 ti

L8   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN  DUPLICATE 1
TI   Transformation of recalcitrant maize elite inbreds using in
     vitro shoot meristematic cultures induced from germinated seedlings

L8   ANSWER 2 OF 7     MEDLINE on STN                  DUPLICATE 2
TI   Similarity of expression patterns of knotted1 and ZmLEC1 during somatic
     and zygotic embryogenesis in maize ( Zea mays L.).

L8   ANSWER 3 OF 7  BIOSIS  COPYRIGHT (c) 2007 The Thomson Corporation  on STN
```

TI Genetic transformation of commercial cultivars of oat (Avena sativa L.) and barley (Hordeum vulgare L.) using in vitro shoot meristematic cultures derived from germinated seedlings.

L8 ANSWER 4 OF 7 MEDLINE on STN DUPLICATE 3
TI Expression of CDC2Zm and KNOTTED1 during in-vitro axillary shoot meristem proliferation and adventitious shoot meristem formation in maize (Zea mays L.) and barley (Hordeum vulgare L.).

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI The competence of maize shoot meristems for integrative transformation and inherited expression of transgenes

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Transient gene expression in vegetative shoot apical meristems of wheat after ballistic microtargeting

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Transient gene expression in vegetative shoot apical meristems of wheat after ballistic microtargeting

=> d 18 1-7 bib

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
AN 2002:799821 CAPLUS
DN 138:184038
TI Transformation of recalcitrant maize elite inbreds using in vitro shoot meristematic cultures induced from germinated seedlings
AU Zhang, S.; Williams-Carrier, R.; Lemaux, P. G.
CS Department of Plant and Microbial Biology, University of California, Berkeley, CA, 94720, USA
SO Plant Cell Reports (2002), 21(3), 263-270
CODEN: PCRPD8; ISSN: 0721-7714
PB Springer-Verlag
DT Journal
LA English
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 7 MEDLINE on STN DUPLICATE 2
AN 2002289241 MEDLINE
DN PubMed ID: 12029467
TI Similarity of expression patterns of knotted1 and ZmLEC1 during somatic and zygotic embryogenesis in maize (Zea mays L.).
AU Zhang Shibo; Wong Laurie; Meng Ling; Lemaux Peggy G
CS Department of Plant and Microbial Biology, University of California, Berkeley, CA 94720, USA.
SO Planta, (2002 Jun) Vol. 215, No. 2, pp. 191-4. Electronic Publication: 2002-03-20.
Journal code: 1250576. ISSN: 0032-0935.
CY Germany: Germany, Federal Republic of
DT (COMPARATIVE STUDY)
Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
(RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
LA English
FS Priority Journals
EM 200209
ED Entered STN: 28 May 2002
Last Updated on STN: 5 Jan 2003
Entered Medline: 12 Sep 2002

L8 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AN 1999:490627 BIOSIS
DN PREV199900490627
TI Genetic transformation of commercial cultivars of oat (Avena sativa L.) and barley (Hordeum vulgare L.) using in vitro shoot meristematic cultures derived from germinated seedlings.
AU Zhang, S.; Cho, M.-J.; Koprek, T.; Yun, R.; Bregitzer, P.; Lemaux, P. G. [Reprint author]
CS Department of Plant and Microbial Biology, University of California, Berkeley, CA, 94720, USA
SO Plant Cell Reports, (Sept., 1999) Vol. 18, No. 12, pp. 959-966. print.
CODEN: PCRPD8. ISSN: 0721-7714.
DT Article
LA English
ED Entered STN: 16 Nov 1999
Last Updated on STN: 16 Nov 1999

L8 ANSWER 4 OF 7 MEDLINE on STN DUPLICATE 3
AN 1998348998 MEDLINE
DN PubMed ID: 9684373
TI Expression of CDC2Zm and KNOTTED1 during in-vitro axillary shoot meristem proliferation and adventitious shoot meristem formation in maize (Zea mays L.) and barley (Hordeum vulgare L.).
AU Zhang S; Williams-Carrier R; Jackson D; Lemaux P G
CS Department of Plant and Microbial Biology, University of California, Berkeley 94720, USA.. shibo@nature.berkeley.edu
SO Planta, (1998 Apr) Vol. 204, No. 4, pp. 542-9.
Journal code: 1250576. ISSN: 0032-0935.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
(RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
LA English
FS Priority Journals
EM 199808
ED Entered STN: 3 Sep 1998
Last Updated on STN: 3 Sep 1998
Entered Medline: 25 Aug 1998

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1996:231040 CAPLUS
DN 124:280484
TI The competence of maize shoot meristems for integrative transformation and inherited expression of transgenes
AU Zhong, Heng; Sun, Baolin; Warkentin, Donald; Zhang, Shibo; Wu, Ray; Wu, Tiyun; Sticklen, Mariam B.
CS Pesticide Res. Cent., Michigan State Univ., East Lansing, MI, 48824-1311, USA
SO Plant Physiology (1996), 110(4), 1097-107
CODEN: PLPHAY; ISSN: 0032-0889
PB American Society of Plant Physiologists
DT Journal
LA English

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1994:126332 CAPLUS
DN 120:126332
TI Transient gene expression in vegetative shoot apical meristems of wheat after ballistic microtargeting
AU Bilang, Roland; Zhang, Shibo; Leduc, Nathalie; Iglesias, Victor A.; Gisel, Andreas; Simmonds, John; Potrykus, Ingo; Sautter, Christof
CS Inst. Plant Sci., Swiss Fed. Inst. Technol., Zurich, CH-8092, Switz.
SO Journal of Composite Materials (1993), 27(17), 735-44
CODEN: JCOMBI; ISSN: 0021-9983
DT Journal

```
LA   English

L8   ANSWER 7 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   1994:290998  CAPLUS
       Correction of: 1994:126332
DN   120:290998
       Correction of: 120:126332
TI   Transient gene expression in vegetative shoot apical meristems of wheat
     after ballistic microtargeting
AU   Bilang, Roland; Zhang, Shibo; Leduc, Nathalie; Iglesias, Victor
     A.; Gisel, Andreas; Simmonds, John; Potrykus, Ingo; Sautter, Christof
CS   Inst. Plant Sci., Swiss Fed. Inst. Technol., Zurich, CH-8092, Switz.
SO   Plant Journal (1993), 4(4), 735-44
     CODEN: PLJUED; ISSN: 0960-7412
DT   Journal
LA   English


=> d his

     (FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

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     16:06:28 ON 31 OCT 2007
L1        44047 S (ZHANG S? OR ZHANG, S?)/AU
L2          222 S (CARRIER, R? OR CARRIER R?)/AU
L3          383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4            0 S L1 AND L2 AND L3
L5        44575 S L1 OR L2 OR L3
L6          634 S L5 AND (CORN OR MAIZE OR ZEA)
L7           18 S L6 AND SHOOT(W)MERISTEM
L8            7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)

=> s l6 and (transform or transformed or transformation)
L9          123 L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)

=> s l9 not l7
L10         110 L9 NOT L7

=> s l10 and meristem
L11           1 L10 AND MERISTEM

=> d l11 ti

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Methods and compositions for the production of stably transformed
     , fertile monocotyledonous plants and cells


=> d l11 1 bib

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   1991:242093  CAPLUS
DN   114:242093
TI   Methods and compositions for the production of stably transformed
     , fertile monocotyledonous plants and cells
IN   Adams, Thomas R.; Adams, Whitney R., Jr.; Chambers, Sheryl A.; Daines,
     Richard J.; Gordon-Kamm, William J.; Kausch, Albert P.; Krueger, Roger W.;
     Lemaux, Peggy G.; Mackey, Catherine J.; et al.
PA   DeKalb Plant Genetics, USA
SO   PCT Int. Appl., 110 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 8
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9102071	A2	19910221	WO 1990-US4462	19900808
	WO 9102071	A3	19920514		
	W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	CA 2064761	A1	19910210	CA 1990-2064761	19900808
	CA 2064761	C	20060613		
	AU 9062903	A	19910311	AU 1990-62903	19900808
	AU 644097	B2	19931202		
	EP 485506	A1	19920520	EP 1990-912722	19900808
	EP 485506	B1	19971112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	BR 9007588	A	19920630	BR 1990-7588	19900808
	HU 60781	A2	19921028	HU 1992-394	19900808
	JP 05501352	T	19930318	JP 1990-512239	19900808
	AT 160174	T	19971115	AT 1990-912722	19900808
	EP 814166	A2	19971229	EP 1997-108223	19900808
	EP 814166	A3	19980513		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	ES 2110417	T3	19980216	ES 1990-912722	19900808
	US 5874265	A	19990223	US 1995-446931	19950523
	US 5919675	A	19990706	US 1995-446933	19950523
	US 5969213	A	19991019	US 1995-446930	19950523
	US 6399861	B1	20020604	US 1995-447985	19950523
	US 6803499	B1	20041012	US 1997-852340	19970507
PRAI	US 1989-392176	A	19890809		
	US 1990-513298	A	19900417		
	EP 1990-912722	A3	19900808		
	WO 1990-US4462	W	19900808		
	US 1990-565844	A1	19900809		
	US 1993-113561	A3	19930825		
	US 1994-233067	A1	19940426		

=> d l11 kwic

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

TI Methods and compositions for the production of stably transformed , fertile monocotyledonous plants and cells

IN . . . R.; Adams, Whitney R., Jr.; Chambers, Sheryl A.; Daines, Richard J.; Gordon-Kamm, William J.; Kausch, Albert P.; Krueger, Roger W.; Lemaux, Peggy G.; Mackey, Catherine J.; et al.

AB . . . is described. The recipient cells may be callus, gametic, or meristematic cells, or embryogenic cells grown in suspension culture. The transformed cells are cultured in a medium containing an embryogenesis-promoting hormone until embryogenic callus tissue forms; the callus is transferred to. . . and these cells are transferred to a minimal medium (e.g. Clark's medium) to allow hardening of the plant. Fertile, transgenic maize plants expressing the bar gene were prepared by this method.

ST plant monocotyledonous fertile transgenic; maize fertile transgenic

IT Culture media
(Charbis media, in regeneration of fertile transgenic monocot plants from transformed cells)

IT Barley
Corn
Oat
Rice
Wheat
(fertile transgenic, regeneration from transformed cells of)

IT Herbicide resistance

(gene for, monocot cell transformation with, regeneration of fertile transgenic plants in relation to)
IT Plasmid and Episome
(monocot cell transformation with, regeneration of fertile transgenic plants in relation to)
IT Transformation, genetic
(of monocot cells, regeneration of fertile transgenic plants after)
IT Gamete and Germ cell
(plant, transformation of, regeneration of fertile transgenic plants in)
IT Fungi
Insect
(resistance to, gene for, monocot cell transformation with, regeneration of fertile transgenic plants in relation to)
IT Proteins, specific or class
RL: BIOL (Biological study)
(antifreeze, gene for, monocot cell transformation with, regeneration of fertile transgenic plants in relation to)
IT Plant tissue
(callus, of monocots, transformation of, regeneration of fertile transgenic plants from)
IT Plant tissue
(meristem, of monocots, transformation of, regeneration of fertile transgenic plants from)
IT Plant
(monocotyledonous, fertile transgenic, regeneration from transformed cells of)
IT Plant tissue culture
(suspension, transformation of, regeneration of fertile transgenic plants in)
IT Gene and Genetic element, plant
(transposable element, monocot cell transformation with DNA containing, production of fertile transgenic plants in relation to)
IT Gene and Genetic element, plant
(DS element, monocot cell transformation with DNA containing, regeneration of fertile transgenic plants in relation to)
IT Gene and Genetic element, plant
RL: BIOL (Biological study)
(Mu element, monocot cell transformation with DNA containing, regeneration of fertile transgenic plants in relation to)
IT Gene and Genetic element, microbial
RL: BIOL (Biological study)
(bar, monocot cell transformation with DNA containing, regeneration of fertile transgenic plants in relation to)
IT Gene and Genetic element, microbial
RL: BIOL (Biological study)
(neo, monocot cell transformation with DNA containing, regeneration of fertile transgenic plants in relation to)
IT 1918-00-9P, Dicamba
RL: PREP (Preparation)
(fertile transgenic monocot regeneration from transformed cells using, as embryogenesis-promoting hormone)
IT 94-75-7P, 2,4-D, biological studies
RL: BIOL (Biological study); PREP (Preparation)
(fertile transgenic monocot regeneration from transformed cells using, as embryogenesis-promoting or tissue-organizing hormone)
IT 86-87-3P, NAA 87-51-4P, 1H-Indole-3-acetic acid, biological studies
87-89-8P, Myo-Inositol 133-32-4P, IBA 1214-39-7P, BAP 21293-29-8P
97856-37-6P
RL: PREP (Preparation)
(fertile transgenic monocot regeneration from transformed cells using, as tissue organizing hormone)
IT 9001-45-0, β-Glucuronidase 9024-90-2, Nitrilase 9027-45-6,
Acetolactate synthase 9068-73-9, EPSP Synthase
RL: PRP (Properties)

(gene for, monocot cell transformation with, production of fertile transgenic plants in relation to)
IT 7440-34-8, Actinium, biological studies
RL: BIOL (Biological study)
(monocot cell transformation with DNA containing, regeneration of fertile transgenic plants in relation to)

=> d his

(FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 16:06:28 ON 31 OCT 2007

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L1        44047 S (ZHANG S? OR ZHANG, S?)/AU
L2          222 S (CARRIER, R? OR CARRIER R?)/AU
L3          383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4            0 S L1 AND L2 AND L3
L5        44575 S L1 OR L2 OR L3
L6          634 S L5 AND (CORN OR MAIZE OR ZEA)
L7           18 S L6 AND SHOOT(W)MERISTEM
L8            7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)
L9          123 S L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L10         110 S L9 NOT L7
L11           1 S L10 AND MERISTEM

=> s meristem(s)shoot(s)(corn or zea or maize)
L12        380 MERISTEM(S) SHOOT(S)(CORN OR ZEA OR MAIZE)

=> s l12 and (transform or transformed or transformation)
L13         51 L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)

=> duplicate remove l13
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L13
L14          20 DUPLICATE REMOVE L13 (31 DUPLICATES REMOVED)

=> s l14 not l5
L15         17 L14 NOT L5

=> d l15 1-10 ti

L15  ANSWER 1 OF 17     MEDLINE on STN
TI   Shoot meristem: an ideal explant for Zea
     mays L. transformation.

L15  ANSWER 2 OF 17     MEDLINE on STN
TI   Additional vegetative growth in maize reflects expansion of fates in
     preexisting tissue, not additional divisions by apical initials.

L15  ANSWER 3 OF 17     MEDLINE on STN
TI   Anaerobic induction and tissue-specific expression of maize Adh1 promoter
     in transgenic rice plants and their progeny.

L15  ANSWER 4 OF 17  AGRICOLA  Compiled and distributed by the National
     Agricultural Library of the Department of Agriculture of the United States
     of America.  It contains copyrighted materials.  All rights reserved.
     (2007) on STN
TI   Transformation of maize by 2,4-dihydroxy-7-methoxy-2H-1,4-
     benzoxazin-3(4H)-one resistant Agrobacterium strains.

L15  ANSWER 5 OF 17  AGRICOLA  Compiled and distributed by the National
     Agricultural Library of the Department of Agriculture of the United States
     of America.  It contains copyrighted materials.  All rights reserved.
```

(2007) on STN
TI Characterization of the KNOX class homeobox genes Oskn2 and Oskn3 identified in a collection of cDNA libraries covering the early stages of rice embryogenesis.

L15 ANSWER 6 OF 17 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2007) on STN
TI Herbicide safener-inducible gene expression in Arabidopsis thaliana.

L15 ANSWER 7 OF 17 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2007) on STN
TI Competence of immature maize embryos for Agrobacterium-mediated gene transfer.

L15 ANSWER 8 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI Shoot apical meristem: a sustainable explant for genetic transformation of cereal crops.

L15 ANSWER 9 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI A homeobox gene with potential developmental control function in the meristem of the conifer Picea abies.

L15 ANSWER 10 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI Transformation of the maize apical meristem: transgenic sector reorganization and germline transmission.

=> d l15 1,8,10 bib

L15 ANSWER 1 OF 17 MEDLINE on STN
AN 2003200890 MEDLINE
DN PubMed ID: 12723048
TI Shoot meristem: an ideal explant for Zea mays L. transformation.
AU Sairam R V; Parani M; Franklin G; Lifeng Z; Smith B; MacDougall J; Wilber C; Sheikhi H; Kashikar N; Meeker K; Al-Abed D; Berry K; Vierling R; Goldman S L
CS Plant Science Research Center, The University of Toledo, Toledo, OH 43606, U.S.A.
SO Genome / National Research Council Canada = Genome / Conseil national de recherches Canada, (2003 Apr) Vol. 46, No. 2, pp. 323-9. Journal code: 8704544. ISSN: 0831-2796.
CY Canada
DT Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) (RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
LA English
FS Priority Journals
EM 200403
ED Entered STN: 1 May 2003
Last Updated on STN: 25 Mar 2004
Entered Medline: 24 Mar 2004

L15 ANSWER 8 OF 17 CABA COPYRIGHT 2007 CABI on STN
AN 2006:125904 CABA
DN 20063094117
TI Shoot apical meristem: a sustainable explant for genetic transformation of cereal crops
AU Sticklen, M. B.; Oraby, H. F.
CS 362 Plant and Soil Science Building, Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824, USA. stickle1@msu.edu

SO In Vitro Cellular & Developmental Biology - Plant, (2005) Vol. 41, No. 3, pp. 187-200. many ref.
Publisher: CABI Publishing. Wallingford
ISSN: 1054-5476
URL: http://www.ingenta.com/journals/browse/cabi/ivp
DOI: 10.1079/IVP2004616
CY United Kingdom
DT Journal
LA English
ED Entered STN: 3 Aug 2006
Last Updated on STN: 3 Aug 2006

L15 ANSWER 10 OF 17 CABA COPYRIGHT 2007 CABI on STN
AN 1998:71803 CABA
DN 19981604614
TI Transformation of the maize apical meristem: transgenic sector reorganization and germline transmission
AU Lowe, K.; Ross, M.; Sandahl, G.; Miller, M.; Hoerster, G.; Church, L.; Tagliani, L.; Bond, D.; Gordon-Kamm, W.; Tsaftaris, A. S. [EDITOR]
CS Pioneer Hi-Bred International Inc., Johnston, IA 50131-1004, USA.
SO Proceedings of the XVIIth conference on genetics, biotechnology and breeding of maize and sorghum held at Thessaloniki, Greece, 20-25 October 1996, (1997) pp. 94-97. 7 ref.
Publisher: Royal Society of Chemistry. Cambridge
Meeting Info.: Proceedings of the XVIIth conference on genetics, biotechnology and breeding of maize and sorghum held at Thessaloniki, Greece, 20-25 October 1996.
ISBN: 0-85404-762-X
CY United Kingdom
DT Conference Article
LA English
ED Entered STN: 12 May 1998
Last Updated on STN: 12 May 1998

=> d l15 11-17 ti

L15 ANSWER 11 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI Homeobox genes in the functioning of plant meristems.

L15 ANSWER 12 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI Germline transformation of maize following manipulation of chimeric shoot meristems.

L15 ANSWER 13 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI Agrobacterium tumefaciens-mediated expression of gusA in maize tissues.

L15 ANSWER 14 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI More knots untied.

L15 ANSWER 15 OF 17 CABA COPYRIGHT 2007 CABI on STN
TI Clonal analysis of the cell lineages in the male flower of maize.

L15 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
TI Genetic engineering of corn: sustainability of shoot tip meristem in genetic transformation

L15 ANSWER 17 OF 17 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI Shoot meristem: An ideal explant for Zea mays (L.) transformation.

=> d l15 12,13,16,17 bib

L15 ANSWER 12 OF 17 CABA COPYRIGHT 2007 CABI on STN
AN 95:178258 CABA
DN 19951611377
TI Germline transformation of maize following manipulation of chimeric shoot meristems
AU Lowe, K.; Bowen, B.; Hoerster, G.; Ross, M.; Bond, D.; Pierce, D.; Gordon-Kamm, B.
CS Pioneer Hi-Bred International Inc., 7300 NW 62nd Avenue, PO Box 1004, Johnston, IA 50131, USA.
SO Bio/Technology, (1995) Vol. 13, No. 7, pp. 677-682. 66 ref.
ISSN: 0733-222X
DT Journal
LA English
ED Entered STN: 20 Oct 1995
Last Updated on STN: 20 Oct 1995

L15 ANSWER 13 OF 17 CABA COPYRIGHT 2007 CABI on STN
AN 94:114759 CABA
DN 19941609347
TI Agrobacterium tumefaciens-mediated expression of gusA in maize tissues
AU Ritchie, S. W.; Lui, C. N.; Sellmer, J. C.; Kononowicz, H.; Hodges, T. K.; Gelvin, S. B.
CS Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN 47907, USA.
SO Transgenic Research, (1993) Vol. 2, No. 5, pp. 252-265. 42 ref.
ISSN: 0962-8819
DT Journal
LA English
ED Entered STN: 2 Dec 1994
Last Updated on STN: 2 Dec 1994

L15 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2000:32635 CAPLUS
DN 132:318342
TI Genetic engineering of corn: sustainability of shoot tip meristem in genetic transformation
AU Zhong, H.; Sticklen, M. B.
CS Novartis Agribusiness Biotechnology Research, Inc., RTP, NC, 27709, USA
SO Biotechnology in Agriculture and Forestry (2000), 46(Transgenic Crops I), 37-59
CODEN: BAFOEG; ISSN: 0934-943X
PB Springer-Verlag
DT Journal; General Review
LA English
RE.CNT 146 THERE ARE 146 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 17 OF 17 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AN 2003:313542 BIOSIS
DN PREV200300313542
TI Shoot meristem: An ideal explant for Zea mays (L.) transformation.
AU Al-Abed, D. [Reprint Author]; Sairam, R. V. [Reprint Author]; Goldman, S. L. [Reprint Author]
CS Plant Science Research Center, University of Toledo, Toledo, OH, 43606, USA
diaa29@aol.com
SO In Vitro Cellular & Developmental Biology Plant, (Spring 2003) Vol. 39, No. Abstract, pp. 22-A. print.
Meeting Info.: Congress on In Vitro Biology. Portland, Oregon, USA. May 31-June 04, 2003. Society for In Vitro Biology.
ISSN: 1054-5476 (ISSN print).
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

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LA   English
ED   Entered STN: 2 Jul 2003
     Last Updated on STN: 2 Jul 2003


=> d his

     (FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

     FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
     16:06:28 ON 31 OCT 2007
L1        44047 S (ZHANG S? OR ZHANG, S?)/AU
L2          222 S (CARRIER, R? OR CARRIER R?)/AU
L3          383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4            0 S L1 AND L2 AND L3
L5        44575 S L1 OR L2 OR L3
L6          634 S L5 AND (CORN OR MAIZE OR ZEA)
L7           18 S L6 AND SHOOT(W)MERISTEM
L8            7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)
L9          123 S L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L10         110 S L9 NOT L7
L11           1 S L10 AND MERISTEM
L12         380 S MERISTEM(S)SHOOT(S)(CORN OR ZEA OR MAIZE)
L13          51 S L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L14          20 DUPLICATE REMOVE L13 (31 DUPLICATES REMOVED)
L15          17 S L14 NOT L5

=> s l14 not l15
L16           3 L14 NOT L15

=> s l16 not l8
L17           0 L16 NOT L8

=> s shoot(w)meristem(s)stem
L18         141 SHOOT(W) MERISTEM(S) STEM

=> s shoot(w)meristem(s)stem(s)(corn or zea or maize)
L19           8 SHOOT(W) MERISTEM(S) STEM(S)(CORN OR ZEA OR MAIZE)

=> s l19 not l5
L20           8 L19 NOT L5

=> duplicate remove l20
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L20
L21           2 DUPLICATE REMOVE L20 (6 DUPLICATES REMOVED)

=> d l21 1-2 ti

L21  ANSWER 1 OF 2  AGRICOLA  Compiled and distributed by the National
     Agricultural Library of the Department of Agriculture of the United States
     of America.  It contains copyrighted materials.  All rights reserved.
     (2007) on STN                                        DUPLICATE 1
TI   A homeobox gene with potential developmental control function in the
     meristem of the conifer Picea abies.

L21  ANSWER 2 OF 2     MEDLINE on STN                     DUPLICATE 2
TI   A knotted1-like homeobox gene in Arabidopsis is expressed in the
     vegetative meristem and dramatically alters leaf morphology when
     overexpressed in transgenic plants.


=> s shoot(w)meristem(s)(corn or zea or maize)
L22         115 SHOOT(W) MERISTEM(S)(CORN OR ZEA OR MAIZE)
```

```
=> s l22 not l19
L23         107 L22 NOT L19

=> s l23 and stem
L24           9 L23 AND STEM

=> s l24 not l5
L25           8 L24 NOT L5

=> duplicate remove l25
DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L25
L26           2 DUPLICATE REMOVE L25 (6 DUPLICATES REMOVED)

=> d l26 1-2 ti

L26  ANSWER 1 OF 2     MEDLINE on STN                    DUPLICATE 1
TI   The fasciated ear2 gene encodes a leucine-rich repeat receptor-like
     protein that regulates shoot meristem proliferation in
     maize.

L26  ANSWER 2 OF 2     MEDLINE on STN                    DUPLICATE 2
TI   A homeobox gene with potential developmental control function in the
     meristem of the conifer Picea abies.


=> d his

     (FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

     FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
     16:06:28 ON 31 OCT 2007
L1         44047 S (ZHANG S? OR ZHANG, S?)/AU
L2           222 S (CARRIER, R? OR CARRIER R?)/AU
L3           383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4             0 S L1 AND L2 AND L3
L5         44575 S L1 OR L2 OR L3
L6           634 S L5 AND (CORN OR MAIZE OR ZEA)
L7            18 S L6 AND SHOOT(W)MERISTEM
L8             7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)
L9           123 S L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L10          110 S L9 NOT L7
L11            1 S L10 AND MERISTEM
L12          380 S MERISTEM(S)SHOOT(S)(CORN OR ZEA OR MAIZE)
L13           51 S L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L14           20 DUPLICATE REMOVE L13 (31 DUPLICATES REMOVED)
L15           17 S L14 NOT L5
L16            3 S L14 NOT L15
L17            0 S L16 NOT L8
L18          141 S SHOOT(W)MERISTEM(S)STEM
L19            8 S SHOOT(W)MERISTEM(S)STEM(S)(CORN OR ZEA OR MAIZE)
L20            8 S L19 NOT L5
L21            2 DUPLICATE REMOVE L20 (6 DUPLICATES REMOVED)
L22          115 S SHOOT(W)MERISTEM(S)(CORN OR ZEA OR MAIZE)
L23          107 S L22 NOT L19
L24            9 S L23 AND STEM
L25            8 S L24 NOT L5
L26            2 DUPLICATE REMOVE L25 (6 DUPLICATES REMOVED)

=> s shoot(w)meristem(p)(corn or zea or maize)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'MERISTEM(P)(CORN'
L27          168 SHOOT(W) MERISTEM(P)(CORN OR ZEA OR MAIZE)
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```
=> s shoot(w)meristem(p)(corn or zea or maize)
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'MERISTEM(P)(CORN'
L28         168 SHOOT(W) MERISTEM(P)(CORN OR ZEA OR MAIZE)

=> s l28 not l22
L29          53 L28 NOT L22

=> s l29 not l5
L30          49 L29 NOT L5

=> duplicate remove l30
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L30
L31          28 DUPLICATE REMOVE L30 (21 DUPLICATES REMOVED)

=> d l31 1-10 ti

L31  ANSWER 1 OF 28      MEDLINE on STN                    DUPLICATE 1
TI   L1 division and differentiation patterns influence shoot apical meristem
     maintenance.

L31  ANSWER 2 OF 28      MEDLINE on STN                    DUPLICATE 2
TI   Control of phyllotaxy by the cytokinin-inducible response regulator
     homologue ABPHYL1.

L31   ANSWER 3 OF 28  BIOTECHNO  COPYRIGHT 2007 Elsevier Science B.V. on STN
TI    Intercellular trafficking of a KNOTTED1 green fluorescent protein fusion
      in the leaf and shoot meristem of Arabidopsis

L31  ANSWER 4 OF 28      MEDLINE on STN                    DUPLICATE 3
TI   Mutations in two independent genes lead to suppression of the shoot apical
     meristem in maize.

L31  ANSWER 5 OF 28  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   The regulation of compound leaf development

L31  ANSWER 6 OF 28  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Seed plants exhibiting early reproductive development based on genetic
     engineering of floral meristem identity genes

L31  ANSWER 7 OF 28  BIOSIS  COPYRIGHT (c) 2007 The Thomson Corporation  on STN
TI   Maize and cauliflower apetalai gene products and nucleic acid molecules
     encoding same.

L31  ANSWER 8 OF 28      MEDLINE on STN                    DUPLICATE 4
TI   Analysis of four embryo-specific mutants in Zea mays reveals that
     incomplete radial organization of the proembryo interferes with subsequent
     development.

L31  ANSWER 9 OF 28      MEDLINE on STN                    DUPLICATE 5
TI   Control of phyllotaxy in maize by the abphyl1 gene.

L31  ANSWER 10 OF 28  CAPLUS  COPYRIGHT 2007 ACS on STN DUPLICATE 6
TI   Regulation of xylem transport of calcium from roots to shoot of maize by
     growth-related demand


=> d l31 11-20 ti

L31  ANSWER 11 OF 28  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Seed plants exhibiting early reproductive development based on genetic
     engineering of floral meristem identity genes
```

L31 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
TI Seed plants exhibiting early reproductive development based on genetic engineering of floral meristem identity genes

L31 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
TI Seed plants exhibiting early reproductive development based on genetic engineering of floral meristem identity genes

L31 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 7
TI The maize gene empty pericarp-2 is required for progression beyond early stages of embryogenesis

L31 ANSWER 15 OF 28 MEDLINE on STN DUPLICATE 8
TI Novel, developmentally specific control of Ds transposition in maize.

L31 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 9
TI Effect of root zone temperature and shoot demand on nitrogen translocation from the roots to the shoot in maize supplied with nitrate or ammonium

L31 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 10
TI Effects of suboptimal root zone temperatures and shoot demand on net translocation of micronutrients from the roots to the shoot of maize

L31 ANSWER 18 OF 28 MEDLINE on STN DUPLICATE 11
TI Coordinate suppression of mutations caused by Robertson's mutator transposons in maize.

L31 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 12
TI Influence of the form of nitrogen supply on root uptake and translocation of cations in the xylem exudate of maize (Zea mays L.)

L31 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
TI Molecular biology of cold tolerance

=> d l3121-28 ti
'L3121-28' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):l31
'L205' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):d l31 21-28 ti
'D' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ti

L31 ANSWER 1 OF 28 MEDLINE on STN DUPLICATE 1
TI L1 division and differentiation patterns influence shoot apical meristem maintenance.

=> d l31 21-28 ti

L31 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 13
TI Pyrolysis mass spectrometry of developmental stages of maize somatic

embryos

L31 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 14
TI Differences between maize and wheat in growth-related nutrient demand and uptake of potassium and phosphorus at suboptimal root zone temperatures

L31 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 15
TI Effect of root zone temperature and shoot demand on uptake and xylem transport of macronutrients in maize (Zea mays L.)

L31 ANSWER 24 OF 28 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI ROOT TO SHOOT TRANSLOCATION OF MACRONUTRIENTS IN RELATION TO SHOOT DEMAND IN MAIZE ZEA-MAYS L. GROWN AT DIFFERENT ROOT ZONE TEMPERATURES.

L31 ANSWER 25 OF 28 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI HISTOLOGICAL COMPARISON OF SINGLE SOMATIC EMBRYOS OF MAIZE FROM SUSPENSION CULTURE WITH SOMATIC EMBRYOS ATTACHED TO CALLUS CELLS.

L31 ANSWER 26 OF 28 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI DEVELOPMENTAL MORPHOLOGY AND CYTOLOGY OF THE YOUNG MAIZE EMBRYO ZEA-MAYS.

L31 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN
TI Experimental induction of a normal morphological phenocopy of an inflorescence in a Zea mays mutant

L31 ANSWER 28 OF 28 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
TI Effect of root zone temperature on corn leaf morphology.

=> d his

(FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 16:06:28 ON 31 OCT 2007

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L1      44047 S (ZHANG S? OR ZHANG, S?)/AU
L2        222 S (CARRIER, R? OR CARRIER R?)/AU
L3        383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4          0 S L1 AND L2 AND L3
L5      44575 S L1 OR L2 OR L3
L6        634 S L5 AND (CORN OR MAIZE OR ZEA)
L7         18 S L6 AND SHOOT(W)MERISTEM
L8          7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)
L9        123 S L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L10       110 S L9 NOT L7
L11         1 S L10 AND MERISTEM
L12       380 S MERISTEM(S)SHOOT(S)(CORN OR ZEA OR MAIZE)
L13        51 S L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L14        20 DUPLICATE REMOVE L13 (31 DUPLICATES REMOVED)
L15        17 S L14 NOT L5
L16         3 S L14 NOT L15
L17         0 S L16 NOT L8
L18       141 S SHOOT(W)MERISTEM(S)STEM
L19         8 S SHOOT(W)MERISTEM(S)STEM(S)(CORN OR ZEA OR MAIZE)
L20         8 S L19 NOT L5
L21         2 DUPLICATE REMOVE L20 (6 DUPLICATES REMOVED)
L22       115 S SHOOT(W)MERISTEM(S)(CORN OR ZEA OR MAIZE)
L23       107 S L22 NOT L19
L24         9 S L23 AND STEM
L25         8 S L24 NOT L5
L26         2 DUPLICATE REMOVE L25 (6 DUPLICATES REMOVED)
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L27          168 S SHOOT(W)MERISTEM(P)(CORN OR ZEA OR MAIZE)
L28          168 S SHOOT(W)MERISTEM(P)(CORN OR ZEA OR MAIZE)
L29           53 S L28 NOT L22
L30           49 S L29 NOT L5
L31           28 DUPLICATE REMOVE L30 (21 DUPLICATES REMOVED)

=> file uspatfull
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                        ENTRY    SESSION
FULL ESTIMATED COST                                    143.91     144.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                        ENTRY    SESSION
CA SUBSCRIBER PRICE                                     -0.78      -0.78

FILE 'USPATFULL' ENTERED AT 16:25:38 ON 31 OCT 2007
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 30 Oct 2007 (20071030/PD)
FILE LAST UPDATED: 30 Oct 2007 (20071030/ED)
HIGHEST GRANTED PATENT NUMBER: US7290289
HIGHEST APPLICATION PUBLICATION NUMBER: US2007250975
CA INDEXING IS CURRENT THROUGH 30 Oct 2007 (20071030/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 30 Oct 2007 (20071030/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2007
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2007


=> s l4
            591 ZHANG S?/AU
            591 ZHANG, S?/AU
             13 CARRIER, R?/AU
             13 CARRIER R?/AU
             21 LEMAUX, P?/AU
             21 LEMAUX P?/AU
L32           1 L1 AND L2 AND L3

=> d l32 bib

L32  ANSWER 1 OF 1  USPATFULL on STN
AN     2006:204480  USPATFULL
TI     Methods and compositions for transformation and regeneration of maize
IN     Zhang, Shibo, Albany, CA, UNITED STATES
         Carrier, Rosalind, Springfield, OR, UNITED STATES
         Lemaux, Peggy G, Moraga, CA, UNITED STATES
PI     US 2006174367       A1  20060803
AI     US 2003-526663      A1  20030903 (10)
       WO 2003-US27565         20030903
                               20060119  PCT 371 date
PRAI   US 2002-408142P     20020903 (60)
DT     Utility
FS     APPLICATION
LREP   MORRISON & FOERSTER LLP, 425 MARKET STREET, SAN FRANCISCO, CA,
       94105-2482, US
CLMN   Number of Claims: 21
ECL    Exemplary Claim: 1
DRWN   5 Drawing Page(s)
LN.CNT 1200
CAS INDEXING IS AVAILABLE FOR THIS PATENT.


=> s l6
            591 ZHANG S?/AU
            591 ZHANG, S?/AU
             13 CARRIER, R?/AU
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            13 CARRIER R?/AU
            21 LEMAUX, P?/AU
            21 LEMAUX P?/AU
        114418 CORN
         33534 MAIZE
          9896 ZEA
L33         96 L5 AND (CORN OR MAIZE OR ZEA)

=> s l7
           591 ZHANG S?/AU
           591 ZHANG, S?/AU
            13 CARRIER, R?/AU
            13 CARRIER R?/AU
            21 LEMAUX, P?/AU
            21 LEMAUX P?/AU
        114418 CORN
         33534 MAIZE
          9896 ZEA
         22633 SHOOT
          4234 MERISTEM
           606 SHOOT(W) MERISTEM
L34         10 L6 AND SHOOT(W) MERISTEM

=> s l34 not l32
L35          9 L34 NOT L32

=> d l35 1-9 ti

L35  ANSWER 1 OF 9  USPATFULL on STN
TI     Compositions and methods for plant transformation and regeneration

L35  ANSWER 2 OF 9  USPATFULL on STN
TI     Value-added traits in grain and seed transformed with thioredoxin

L35  ANSWER 3 OF 9  USPATFULL on STN
TI     Value-added traits in grain and seed transformed with thioredoxin

L35  ANSWER 4 OF 9  USPATFULL on STN
TI     Barley gene for thioredoxin and NADP-thioredoxin reductase

L35  ANSWER 5 OF 9  USPATFULL on STN
TI     Transgenic plants with elevated thioredoxin levels

L35  ANSWER 6 OF 9  USPATFULL on STN
TI     Methods and compositions for transformation of cereals using cultured
       shoot meristematic tissue

L35  ANSWER 7 OF 9  USPATFULL on STN
TI     Barley gene for Thioredoxin and NADP-thioredoxin reductase

L35  ANSWER 8 OF 9  USPATFULL on STN
TI     Compositions and methods for plant transformation and regeneration

L35  ANSWER 9 OF 9  USPATFULL on STN
TI     Compositions and methods for plant transformation and regeneration


=> d l35 1,6,8,9 bib

L35  ANSWER 1 OF 9  USPATFULL on STN
AN     2006:230185  USPATFULL
TI     Compositions and methods for plant transformation and regeneration
IN     Lemaux, Peggy G., Moraga, CA, UNITED STATES
       Cho, Myeong-Je, Alameda, CA, UNITED STATES
PA     The Regents of the University of California, Oakland, CA, UNITED STATES
```

(U.S. corporation)
PI US 7102056 B1 20060905
AI US 2000-552252 20000418 (9)
RLI Continuation-in-part of Ser. No. US 1997-845939, filed on 29 Apr 1997, Pat. No. US 6235529
DT Utility
FS GRANTED
EXNAM Primary Examiner: Bui, Phuong T.; Assistant Examiner: Helmer, Georgia L.
LREP Morrison & Foerster LLP
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 4314
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 6 OF 9 USPATFULL on STN
AN 2002:311085 USPATFULL
TI Methods and compositions for transformation of cereals using cultured shoot meristematic tissue
IN Zhang, Shibo, Albany, CA, United States
Cho, Myeong-Je, Alameda, CA, United States
Bregitzer, Phillip, American Falls, ID, United States
Lemaux, Peggy G., Moraga, CA, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States (U.S. corporation)
PI US 6486384 B1 20021126
AI US 1998-159317 19980923 (9)
PRAI US 1997-59873P 19970924 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Kruse, David H
LREP Morrison & Foerster LLP
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 2173

L35 ANSWER 8 OF 9 USPATFULL on STN
AN 2001:182338 USPATFULL
TI Compositions and methods for plant transformation and regeneration
IN Lemaux, Peggy G., Moraga, CA, United States
Cho, Myeong-Je, Alameda, CA, United States
PA The Regents of University of California (U.S. corporation)
PI US 2001031496 A1 20011018
US 6541257 B2 20030401
AI US 2001-825217 A1 20010403 (9)
RLI Division of Ser. No. US 1997-845939, filed on 29 Apr 1997, GRANTED, Pat. No. US 6235529
DT Utility
FS APPLICATION
LREP ALSTON & BIRD LLP, BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET, SUITE 4000, CHARLOTTE, NC, 28280-4000
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 1 Drawing Page(s)
LN.CNT 1867
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 9 OF 9 USPATFULL on STN
AN 2001:75182 USPATFULL
TI Compositions and methods for plant transformation and regeneration
IN Lemaux, Peggy G., Moraga, CA, United States
Cho, Myeong-Je, Alameda, CA, United States

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PA      The Regents of the University of California, Oakland, CA, United States
        (U.S. corporation)
PI      US 6235529          B1  20010522
AI      US 1997-845939          19970429 (8)
DT      Utility
FS      Granted
EXNAM   Primary Examiner: Fox, David T.; Assistant Examiner: Zaghmout, Ousama
LREP    Alston & Bird LLP
CLMN    Number of Claims: 14
ECL     Exemplary Claim: 1
DRWN    2 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 1920
CAS INDEXING IS AVAILABLE FOR THIS PATENT.


=> d his

     (FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

     FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
     16:06:28 ON 31 OCT 2007
L1         44047 S (ZHANG S? OR ZHANG, S?)/AU
L2           222 S (CARRIER, R? OR CARRIER R?)/AU
L3           383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4             0 S L1 AND L2 AND L3
L5         44575 S L1 OR L2 OR L3
L6           634 S L5 AND (CORN OR MAIZE OR ZEA)
L7            18 S L6 AND SHOOT(W)MERISTEM
L8             7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)
L9           123 S L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L10          110 S L9 NOT L7
L11            1 S L10 AND MERISTEM
L12          380 S MERISTEM(S)SHOOT(S)(CORN OR ZEA OR MAIZE)
L13           51 S L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L14           20 DUPLICATE REMOVE L13 (31 DUPLICATES REMOVED)
L15           17 S L14 NOT L5
L16            3 S L14 NOT L15
L17            0 S L16 NOT L8
L18          141 S SHOOT(W)MERISTEM(S)STEM
L19            8 S SHOOT(W)MERISTEM(S)STEM(S)(CORN OR ZEA OR MAIZE)
L20            8 S L19 NOT L5
L21            2 DUPLICATE REMOVE L20 (6 DUPLICATES REMOVED)
L22          115 S SHOOT(W)MERISTEM(S)(CORN OR ZEA OR MAIZE)
L23          107 S L22 NOT L19
L24            9 S L23 AND STEM
L25            8 S L24 NOT L5
L26            2 DUPLICATE REMOVE L25 (6 DUPLICATES REMOVED)
L27          168 S SHOOT(W)MERISTEM(P)(CORN OR ZEA OR MAIZE)
L28          168 S SHOOT(W)MERISTEM(P)(CORN OR ZEA OR MAIZE)
L29           53 S L28 NOT L22
L30           49 S L29 NOT L5
L31           28 DUPLICATE REMOVE L30 (21 DUPLICATES REMOVED)

     FILE 'USPATFULL' ENTERED AT 16:25:38 ON 31 OCT 2007
L32            1 S L4
L33           96 S L6
L34           10 S L7
L35            9 S L34 NOT L32

=> s l13
          4234 MERISTEM
         22633 SHOOT
        114418 CORN
          9896 ZEA
         33534 MAIZE
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          244 MERISTEM(S) SHOOT(S)(CORN OR ZEA OR MAIZE)
       173801 TRANSFORM
       230650 TRANSFORMED
       203736 TRANSFORMATION
L36       242 L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)

=> s l19
        22633 SHOOT
         4234 MERISTEM
       192369 STEM
       114418 CORN
         9896 ZEA
        33534 MAIZE
L37        41 SHOOT(W) MERISTEM(S) STEM(S)(CORN OR ZEA OR MAIZE)

=> s l37 not l33
L38        39 L37 NOT L33

=> d l38 1-10 ti

L38  ANSWER 1 OF 39  USPATFULL on STN
TI     Potato transcription factors, methods of use thereof, and a method for
       enhancing tuber development

L38  ANSWER 2 OF 39  USPATFULL on STN
TI     Nucleic acid sequences from Chlorella sarokiniana and uses thereof

L38  ANSWER 3 OF 39  USPATFULL on STN
TI     Nucleic acid molecules associated with plant cell proliferation and
       growth and uses thereof

L38  ANSWER 4 OF 39  USPATFULL on STN
TI     Control of fruit dehiscence in plants by indehiscent1 genes

L38  ANSWER 5 OF 39  USPATFULL on STN
TI     Methods of modulating cytokinin related processes in a plant using B3
       domain proteins

L38  ANSWER 6 OF 39  USPATFULL on STN
TI     Nucleic acid sequences from diabrotica virgifera virgifera LeConte and
       uses thereof

L38  ANSWER 7 OF 39  USPATFULL on STN
TI     Brassica INDEHISCENT1 sequences

L38  ANSWER 8 OF 39  USPATFULL on STN
TI     Polynucleotides encoding proteins involved in plant metabolism

L38  ANSWER 9 OF 39  USPATFULL on STN
TI     Low maintenance turfgrass

L38  ANSWER 10 OF 39  USPATFULL on STN
TI     Methods for using artifical polynucleotides and compositions thereof to
       reduce transgene silencing


=> d l38 11-20 ti

L38  ANSWER 11 OF 39  USPATFULL on STN
TI     Method of increasing plant organ and seed size in a plant

L38  ANSWER 12 OF 39  USPATFULL on STN
TI     Glyphosate resistant class i 5-enolpyruvylshikimate-3-phosphate
       synthase(epsps)
```

L38 ANSWER 13 OF 39 USPATFULL on STN
TI Control of fruit dehiscence in Arabidopsis by indehiscenti genes

L38 ANSWER 14 OF 39 USPATFULL on STN
TI Control of fruit dehiscence in Arabidopsis by indehiscent1 genes

L38 ANSWER 15 OF 39 USPATFULL on STN
TI Low maintenance turfgrass

L38 ANSWER 16 OF 39 USPATFULL on STN
TI Potato genes for resistance to late blight

L38 ANSWER 17 OF 39 USPATFULL on STN
TI Plant-derived vaccines against respiratory syncytial virus

L38 ANSWER 18 OF 39 USPATFULL on STN
TI Control of fruit dehiscence in plants by indehiscent1 genes

L38 ANSWER 19 OF 39 USPATFULL on STN
TI Genes which produce staygreen characteristics in maize and their uses

L38 ANSWER 20 OF 39 USPATFULL on STN
TI Engineered rna translocators

=> d 138 21-29 ti

L38 ANSWER 21 OF 39 USPATFULL on STN
TI Vectors and cells for preparing immunoprotective compositions derived from transgenic plants

L38 ANSWER 22 OF 39 USPATFULL on STN
TI Methods and substances for preventing and treating autoimmune disease

L38 ANSWER 23 OF 39 USPATFULL on STN
TI Polynucleotides useful for modulating transcription

L38 ANSWER 24 OF 39 USPATFULL on STN
TI Leafy cotyledon1 genes and their uses

L38 ANSWER 25 OF 39 USPATFULL on STN
TI Expression of immunogenic hepatitis B surface antigens in transgenic plants

L38 ANSWER 26 OF 39 USPATFULL on STN
TI Polynucleotides and polypeptides in plants

L38 ANSWER 27 OF 39 USPATFULL on STN
TI Methods of modulating cytokinin related processes in a plant using B3 domain proteins

L38 ANSWER 28 OF 39 USPATFULL on STN
TI Yield-related polynucleotides and polypeptides in plants

L38 ANSWER 29 OF 39 USPATFULL on STN
TI Genes for modifying plant traits xi

=> d 138 30-39 ti

L38 ANSWER 30 OF 39 USPATFULL on STN
TI Orally immunogenic bacterial enterotoxins expressed in transgenic plants

L38 ANSWER 31 OF 39 USPATFULL on STN
TI Expression of immunogenic hepatitis B surface antigens in transgenic

plants

L38 ANSWER 32 OF 39 USPATFULL on STN
TI Polynucleotides useful for modulating transcription

L38 ANSWER 33 OF 39 USPATFULL on STN
TI Leafy cotyledon2 genes and their uses

L38 ANSWER 34 OF 39 USPATFULL on STN
TI Nucleic acid molecules associated with plant cell proliferation and growth and uses thereof

L38 ANSWER 35 OF 39 USPATFULL on STN
TI Polynucleotides encoding proteins involved in plant metabolism

L38 ANSWER 36 OF 39 USPATFULL on STN
TI Methods and compositions for independent DNA replication in eukaryotic cells

L38 ANSWER 37 OF 39 USPATFULL on STN
TI METHODS AND SUBSTANCES FOR PREVENTING AND TREATING AUTOIMMUNE DISEASE

L38 ANSWER 38 OF 39 USPATFULL on STN
TI Leafy cotyledon1 genes and their uses

L38 ANSWER 39 OF 39 USPATFULL on STN
TI Leafy cotyledon1 genes and methods of modulating embryo development in transgenic plants

=> d his

(FILE 'HOME' ENTERED AT 16:05:54 ON 31 OCT 2007)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 16:06:28 ON 31 OCT 2007

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L1      44047 S (ZHANG S? OR ZHANG, S?)/AU
L2        222 S (CARRIER, R? OR CARRIER R?)/AU
L3        383 S (LEMAUX, P? OR LEMAUX P?)/AU
L4          0 S L1 AND L2 AND L3
L5      44575 S L1 OR L2 OR L3
L6        634 S L5 AND (CORN OR MAIZE OR ZEA)
L7         18 S L6 AND SHOOT(W)MERISTEM
L8          7 DUPLICATE REMOVE L7 (11 DUPLICATES REMOVED)
L9        123 S L6 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L10       110 S L9 NOT L7
L11         1 S L10 AND MERISTEM
L12       380 S MERISTEM(S)SHOOT(S)(CORN OR ZEA OR MAIZE)
L13        51 S L12 AND (TRANSFORM OR TRANSFORMED OR TRANSFORMATION)
L14        20 DUPLICATE REMOVE L13 (31 DUPLICATES REMOVED)
L15        17 S L14 NOT L5
L16         3 S L14 NOT L15
L17         0 S L16 NOT L8
L18       141 S SHOOT(W)MERISTEM(S)STEM
L19         8 S SHOOT(W)MERISTEM(S)STEM(S)(CORN OR ZEA OR MAIZE)
L20         8 S L19 NOT L5
L21         2 DUPLICATE REMOVE L20 (6 DUPLICATES REMOVED)
L22       115 S SHOOT(W)MERISTEM(S)(CORN OR ZEA OR MAIZE)
L23       107 S L22 NOT L19
L24         9 S L23 AND STEM
L25         8 S L24 NOT L5
L26         2 DUPLICATE REMOVE L25 (6 DUPLICATES REMOVED)
L27       168 S SHOOT(W)MERISTEM(P)(CORN OR ZEA OR MAIZE)
L28       168 S SHOOT(W)MERISTEM(P)(CORN OR ZEA OR MAIZE)
L29        53 S L28 NOT L22
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L30           49 S L29 NOT L5
L31           28 DUPLICATE REMOVE L30 (21 DUPLICATES REMOVED)

     FILE 'USPATFULL' ENTERED AT 16:25:38 ON 31 OCT 2007
L32            1 S L4
L33           96 S L6
L34           10 S L7
L35            9 S L34 NOT L32
L36          242 S L13
L37           41 S L19
L38           39 S L37 NOT L33

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    18.23     162.35

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -0.78

STN INTERNATIONAL LOGOFF AT 16:31:02 ON 31 OCT 2007
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